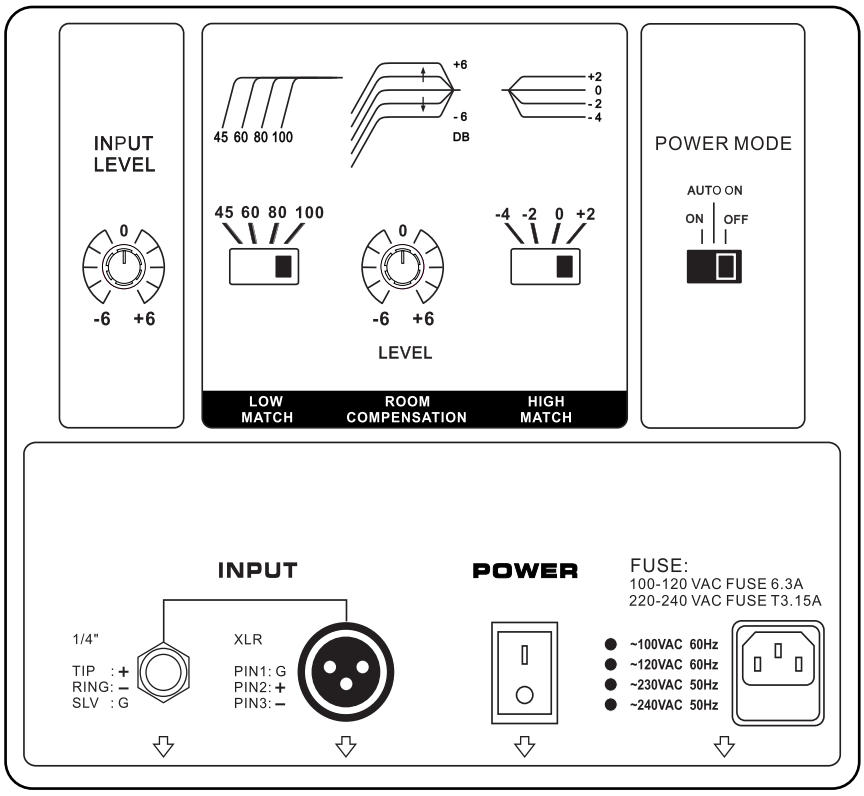
PHONIC

P5A/6A/8A

PROFESSIONAL STUDIO MONITOR



English

User's Manual

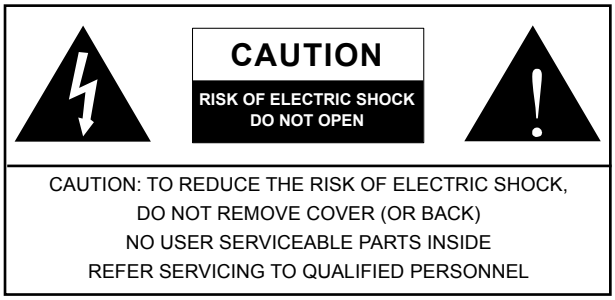
IMPORTANT SAFETY INSTRUCTIONS

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. The MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.

Warning: the user shall not place this apparatus in the confined area during the operation so that the mains switch can be easily accessible.

1. Read these instructions before operating this apparatus.
2. Keep these instructions for future reference.
3. Heed all warnings to ensure safe operation.
4. Follow all instructions provided in this document.
5. Do not use this apparatus near water or in locations where condensation may occur.
6. Clean only with dry cloth. Do not use aerosol or liquid cleaners. Unplug this apparatus before cleaning.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

CAUTION: Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure.

P5A/6A/8A

PROFESSIONAL STUDIO MONITOR

USER'S MANUAL

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Phonic reserves the right to improve or alter any information supplied within this document without prior notice.

V1.1 11/10/07

INTRODUCTION

The bi-amplified P5A/6A/8A are two-way active monitoring speakers designed for high output, low coloration and broad bandwidth. P5A is 5" 2-way; P6A is 6 1/4" 2-way, P8A is 8 3/4" 2-way. Bigger number means bigger power as well as bigger woofer, which offers extended low frequency response and higher output level.

Due to its compact size, integrated construction, excellent dispersion and precise stereo imaging, this speaker system is ideal for near field monitoring, mobile vans, broadcast, TV control rooms and home studios.

Designed as an active speaker, this unit contains drivers, power amplifiers, active crossover filtering and protection circuitry. The directivity control system used provides excellent frequency balance even in difficult acoustic environments.

SOFT DOME WITH SOUND GUIDING HORN

This horn is designed to provide better sound directivity for the listener(s). With its smooth surface and well-spread angle, the sound produced from the tweeter can be easily forwarded to the listener(s).

DRIVERS

The bass frequency is reproduced by a 5-inch, 6 1/4" -inch, and 8 3/4" -inch woofer respectively.

P5A, P6A, and P8A all use a 25mm (1 inch) soft dome tweeter, with pure piston behavior up to 20KHz. The uniform dispersion control is achieved with the directivity control system. This has also resulted in perfect phase and delay uniformity at the crossover frequency. Both drivers in P Series Active Version are magnetically shielded. Please feel free to place this unit next to your PC, laptop, or any other electronic devices.

CROSSOVER

The active crossover network consists of two parallel band pass filters. Acoustically the filters are complementary and the slopes are 24dB/octave. The crossover frequency is set to 1.8KHz. By use of active crossover controls (Low Match, Room Compensation, and High Match, which will be introduced on page 6), this speaker may be exactly matched to any application.

AMPLIFIERS

The amplifier unit is mounted to the rear panel of the speaker with damping material, to ensure rattle free operation and long term reliability. The unit incorporates special protection circuitry as well, for driver overload protection and amplifier thermal overload protection. Variable input sensitivity allows for accurate level matching to the mixing console.

FEATURES

P5A 5" 2-way active studio monitor

P6A 6 1/4" 2-way active studio monitor

P8A 8 3/4" 2-way active studio monitor

- Unique linear phase and frequency response
- Soft dome with sound guiding horn
- Superb sonic accuracy
- Bi-amplified circuitry design
- Active crossover with 4th order Linkwitz-Riley filters
- Bi-color power on & overload protection indicator
- Power on muting circuitry
- Thermal protection
- Two built-in limiters for high-frquency and low- frequency output
- HIGH MATCH control for compensating HF(tweeter) output with +2, 0, -2, or -4dB selection
- Variable ROOM COMPENSATION with +/ -6dB range for location matching
- LOW MATCH control (high pass filter) for using with subwoofer
- High grade MDF wooden enclosure
- Precision bass port tuning
- Internal damping for minimum cabinet resonance
- Magnetically shielded
- XLR and 1/4" jacks for input

INSTALLATION

Each active studio monitor is supplied with an integrated amplifier unit, a mains cable and an operating manual. Once unpacked, place the loudspeaker in its required listening axis. Before connecting up, ensure that the mains switch is off. Audio input is made via a balanced (XLR) and 1/4" TRS phone jacks, which are in paralell. But unbalanced leads may be used as long as pin 3 is grounded to pin 1 of the XLR, or linking Ring to sleeve of the 1/4" TRS phone jack. Once connection has been made, the speakers are ready to be powered-up. Before turning the unit on, make sure the mains needed is identical with the AC outlet.

SETTING THE INPUT SENSITIVITY

Adjustment of the input sensitivity of each speaker can be made to match that of the mixing console or other source, by using the input sensitivity control on the rear panel. The manufacturer default setting for this control is -6dBu (fully clockwise).

SETTING TONE CONTROL

The acoustic response of the system may also have to be adjusted to match the acoustic environment. The adjustment is done by setting the tone control switches on the control panel of the amplifier. Phonic' s default settings for these controls are to give a flat anechoic response. Set switch to the desired position to select response curve needed.

1. LOW MATCH

This is a high pass filter. The numbers above the switch tells you the crossover frequency points. While use this unit with a subwoofer, you can select a suitable frequency to match the additional subwoofer.

2. ROOM COMPENSANTION

User can alter the output volume of woofer depending on its setup position. Positioned real close against the wall, this unit will have stronger low frequency. It is necessary then, to set the level of the low frequency output at -2dB to achieve the best balance between high and low frequency. When located at the corner, it is suggested to set this level at -4dB. Basically, the longer distance your monitor is to the wall, the more you need to boost this bass gain.

3. HIGH MATCH

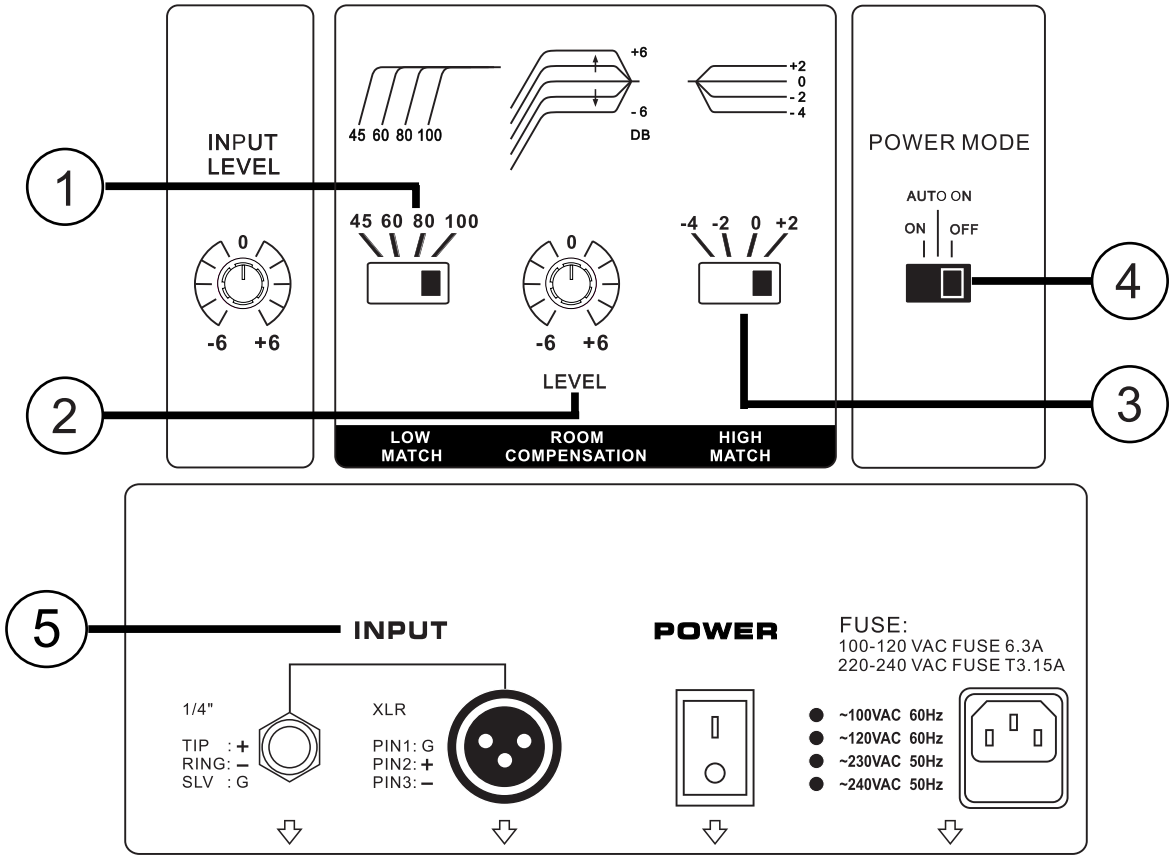
Use this to adapt the speaker' s frequency response to the damping characteristics of the control room.

4. POWER MODE

You can use this switch to select between " ON" , " AUTO ON" , and " OFF" . When set to OFF, this unit is compelety switched off and cannot be activated by the power switch. When the switch is set to AUTO ON, this unit will automatically operate as soon as a signal is sent to its input. On the other hand, this unit will automatically deactivate when the signal is paused for more than five minutes. When the switch is set to ON, this unit is activated all the time and can be turned off only by the power switch.

5. INPUT CONNECTORS

The balanced 1/4" and XLR inputs are available for users to connect various ouput devices to the P Series Studio Monitors.


1
2
3
4
5
INPUT LEVEL
0
-6 +6
45 60 80 100
+6
-6
DB
+2
0
-2
-4
45 60 80 100
0
-6 +6
LEVEL
-4 -2 0 +2
LOW MATCH
ROOM COMPENSATION
HIGH MATCH
POWER MODE
AUTO ON
ON OFF
INPUT
1/4"
TIP : +
RING: –
SLV : G
XLR
PIN1: G
PIN2: +
PIN3: –
POWER
FUSE:
100-120 VAC FUSE 6.3A
220-240 VAC FUSE T3.15A
~100VAC 60Hz
~120VAC 60Hz
~230VAC 50Hz
~240VAC 50Hz

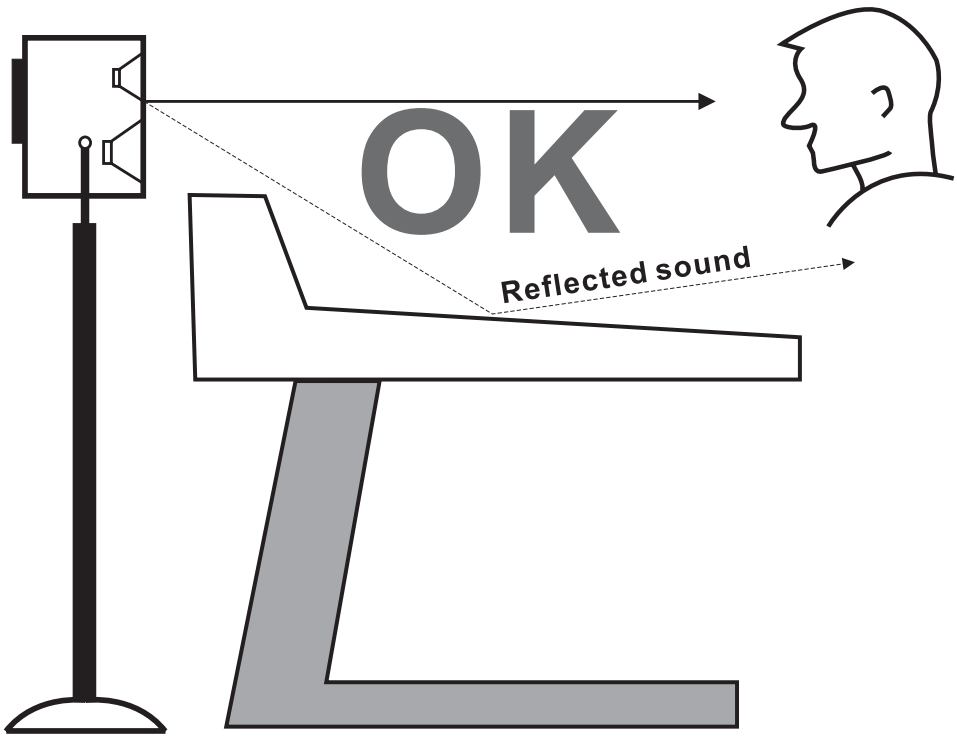
MOUNTING THE MONITOR

VERTICAL / HORIZONTAL MOUNTING

The speakers are normally delivered for vertical mounting. Designed for nearfield monitoring, this studio monitor requires shorter distance than traditional monitors from its location to your ears, which means the reverberation time and general acoustics of the listening room are less critical. Hard surfaces will, however, reflect the higher frequencies, therefore try to avoid putting this monitor close to side walls. The control surface of your mixing console may also pose a problem. To minimize control surface reflections, position your monitor as shown in the figure below, using the meter bridge or rear panel to block sound from both drivers reaching the control surface. Make sure that there is nothing between your ears and the speakers. If your console has no meter bridge, try positioning the monitor higher or further behind the desk. Active series is designed to be used in both the upright and horizontal position. If you want to place two Active series horizontally, it is recommended you put the HF drivers on the outer edge. The low frequencies of this unit will generally sound better if the cabinet is against a wall. If possible, provide a rigid surface (eg. shelf) that is separate from the mixing console and other equipment. The speakers should roughly form a 60 degree angle at the listening position, and should be angled towards the listener(s).

CONSOLE TOP MOUNTING

If the active studio monitor series are used for console top mounting, it is recommended not to mount the speakers directly on the console; instead, position the speaker slightly behind the console by using floor stand or wall mount behind the console. This prevents the reflection from the console surface from coloring the sound.



OVERLOAD INDICATOR

The speaker is provided with one bi-colored indicator on the bottom right corner of the horn. When lit in green, it indicates that the speaker is ready for use. The indicator lighting up in red means that the amplifier is overload or the driver protection circuit is activated. In either cases, reduce the signal level so that the red LED stops blinking. If the red indicator stays on constantly, it means that the amplifier thermal protection is activated. Let the amplifier cool down and check that the ventilation at the rear side of the speaker is not blocked. There should be a clearance of more than 4 inches (10cm) between speaker rear and any solid surface.

	P5A	P6A	P8A
Amplifier LOW / HIGH (Program)	140W / 70W	140W / 70W	212W / 106W
Control	Input Trim, High Match, Room Compensation, Low Match, Power On/Auto On/Off		
Connection	XLR, 1/4"TRS		
Indicator	Bi-color On/Peak		
Crossover	1.8dB Hz, 24dB/oct Linkwitz-Riley Filter		
Protection Circuit	Clip Limiter, Power On muting, Thermal and Overload Protection		
Dimensions (HxWxD)	11.6"x7.7"x9.1" (294.6x195.6x231mm)	13.8"x8.7"x9.3" (337.3x221.0x236.2mm)	16.9"x10.6"x9.1" (249.3x269.2x231.1mm)
Net Weight	12.9 lbs(5.6 kg)	18.0 lbs(8.2 kg)	22.0lbs(10kg)

Specifications are subject to change without prior notice.

TO PURCHASE ADDITIONAL PHONIC GEAR AND ACCESSORIES

To purchase Phonic gear and optional accessories, contact any authorized Phonic distributor. For a list of Phonic distributors please visit our website at www.phonic.com and click on Get Gear. You may also contact Phonic directly and we will assist you in locating a distributor near you.

SERVICE AND REPAIR

Phonic has over 100 service centers worldwide. For replacement parts, service and repairs please contact the Phonic distributor in your country. Phonic does not release service manuals to consumers, and advice users to not attempt any self repairs, as doing so voids all warranties. You can locate a dealer near you at www.phonic.com.

WARRANTY INFORMATION

Phonic stands behind every product we make with a no-hassles warranty. Warranty coverage may be extended, depending on your region. Phonic Corporation warrants this product for a minimum of one year from the original date of purchase against defects in material and workmanship under use as instructed by the user's manual. Phonic, at its option, shall repair or replace the defective unit covered by this warranty. Please retain the dated sales receipt as evidence of the date of purchase. You will need it for any warranty service. No returns or repairs will be accepted without a proper RMA number (return merchandise authorization). In order to keep this warranty in effect, the product must have been handled and used as prescribed in the instructions accompanying this warranty. Any tempering of the product or attempts of self repair voids all warranty. This warranty does not cover any damage due to accident, misuse, abuse, or negligence. This warranty is valid only if the product was purchased new from an authorized Phonic dealer/distributor. For complete warranty policy information, please visit http://www.phonic.com.

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We encourage you to visit our online help at http://www.phonic.com/help/. There you can find answers to frequently asked questions, tech tips, driver downloads, returns instruction and other helpful information. We make every effort to answer your questions within one business day.

Phonic America Corporation
6103 Johns Road, #7
Tampa, FL 33634
(813) 890-8872
support@phonic.com
http://www.phonic.com

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